

## GPS MICROSTRIP ANTENNA

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*5/31/05*  
This application is a continuation-in-part of U.S. Patent Application Serial No. 10/648,715, filed August 27, 2003, now U.S. Patent No. 6,867,737.

## 5 BACKGROUND OF THE INVENTION

## 1. Field of the Invention

The present invention relates generally to a microstrip antenna for use on a missile or the like. More specifically, the present invention relates to a microstrip antenna which receives GPS (global positioning system) data and which is adapted for use on small diameter projectiles such as a missile.

## 2. Description of the Prior Art.

A microstrip antenna operates by resonating at a frequency. The conventional design for a MICROSTRIP antenna utilizes printed circuit board techniques mounting a copper patch on the top layer of a dielectric with a ground plane on the bottom of the dielectric. The frequency at which the antenna operates is approximately a half wavelength in the microstrip medium of dielectric below the copper patch and air above the copper patch.

However, there is a need to isolate the microstrip antenna from radio frequency signals at different frequencies than the